

FIG. 1

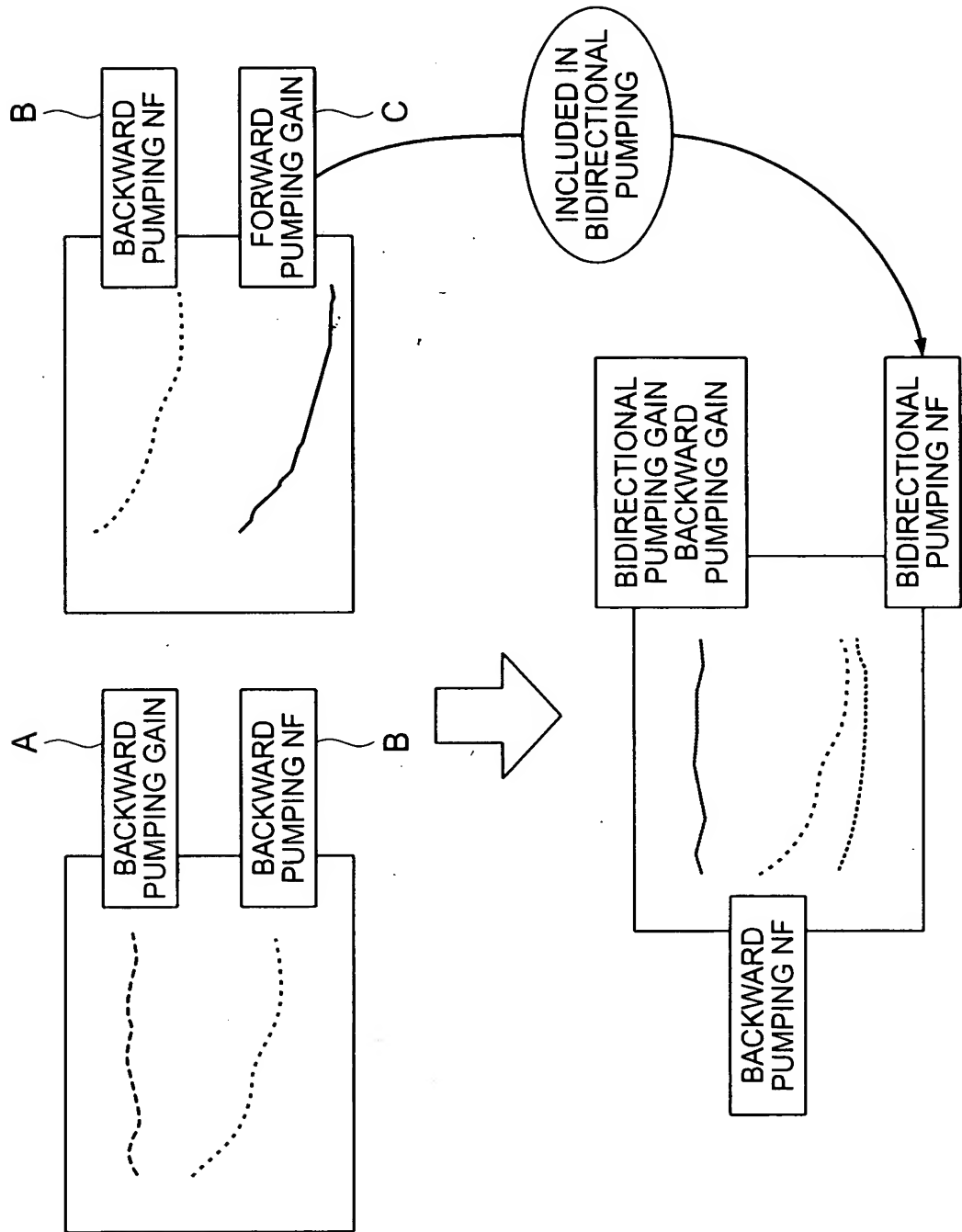


FIG. 2

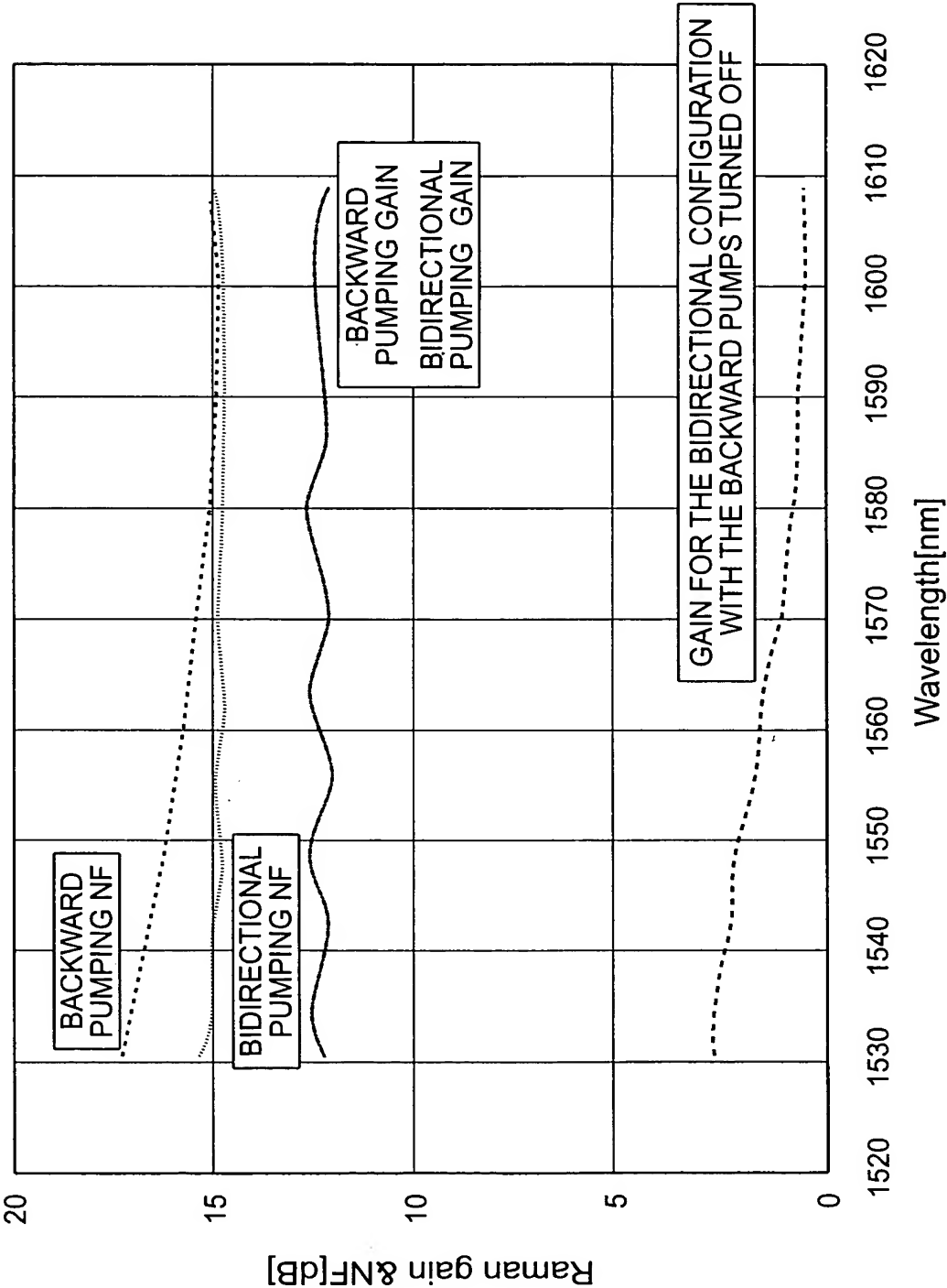


FIG. 3

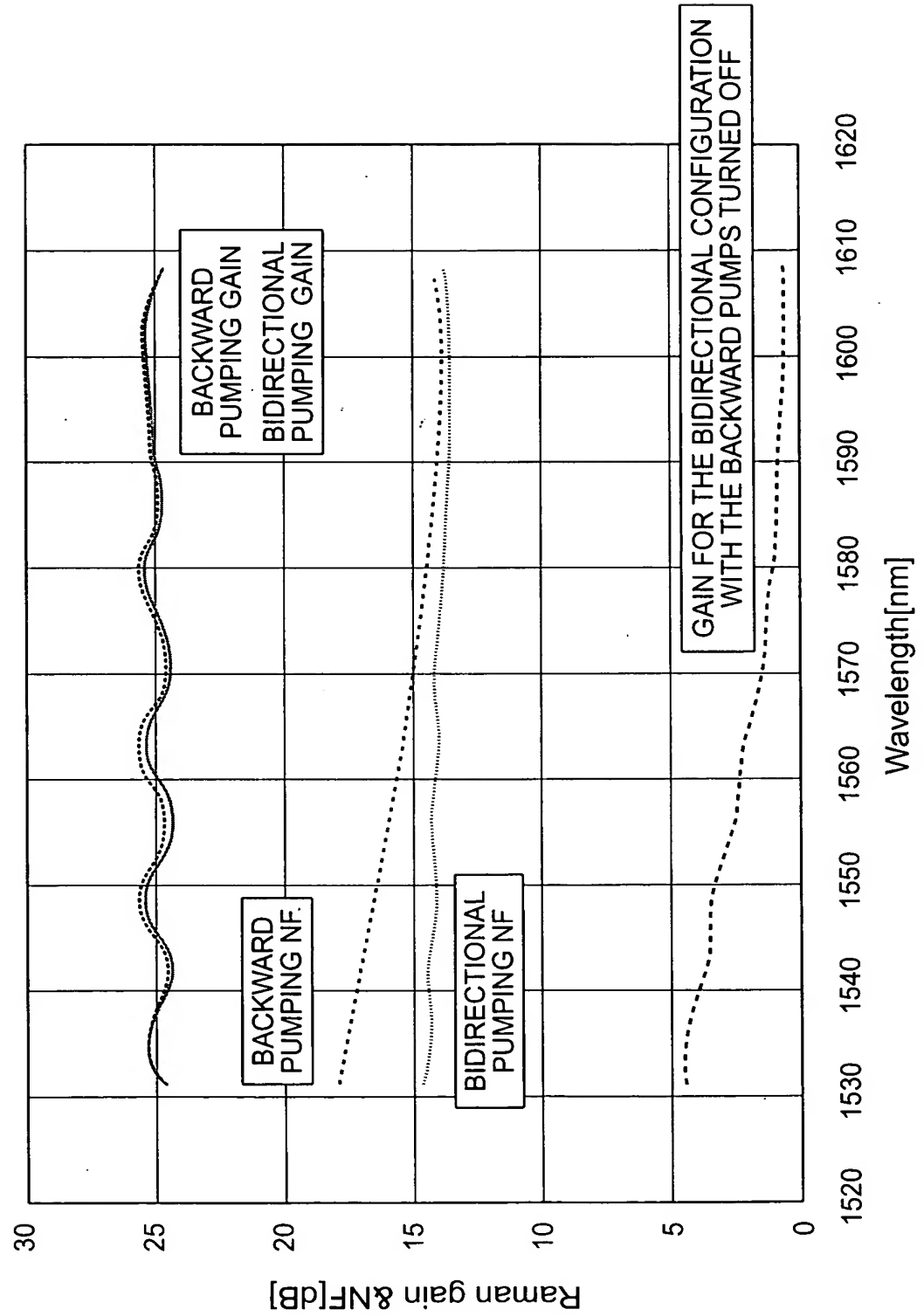


FIG. 4

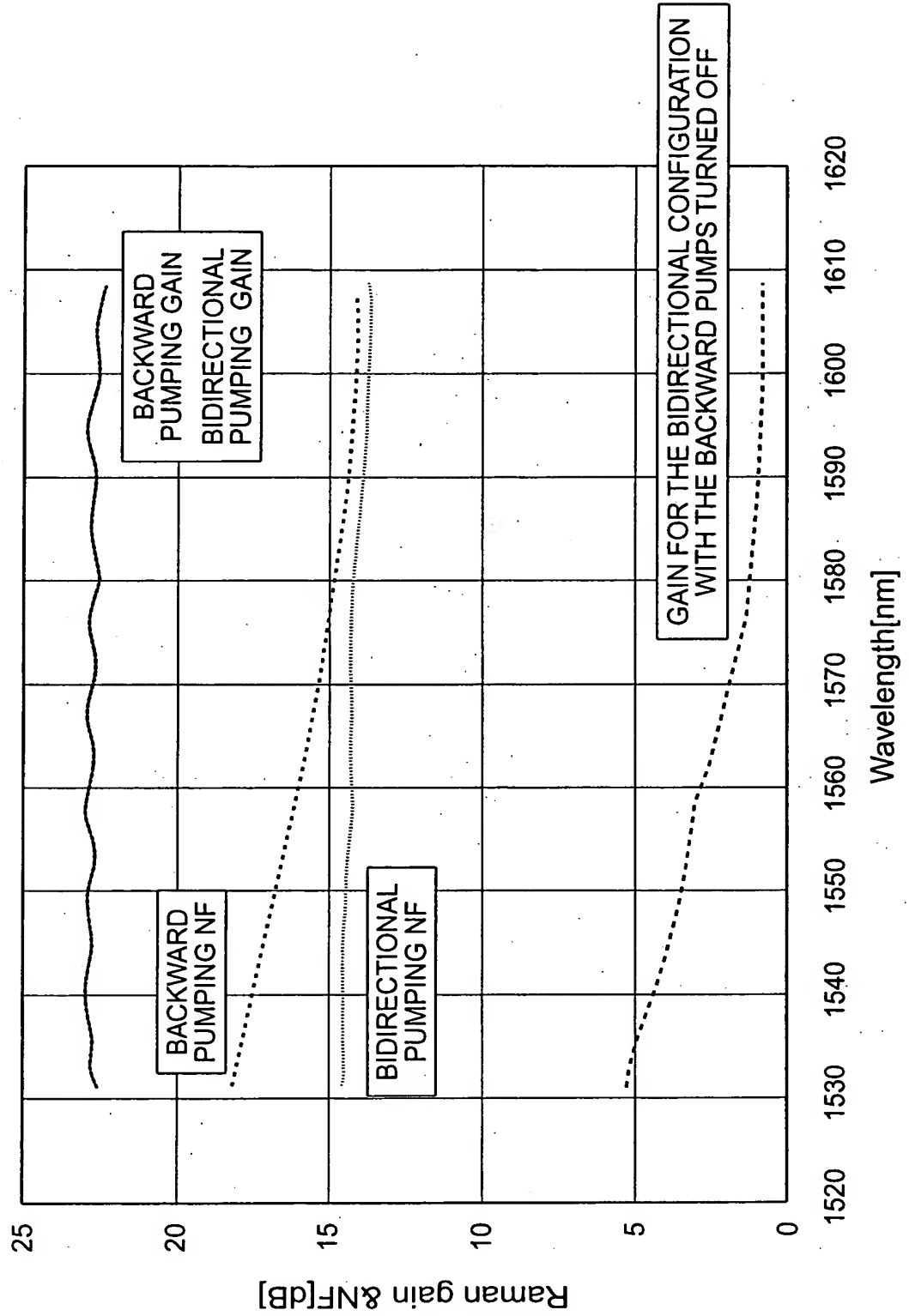


FIG. 5

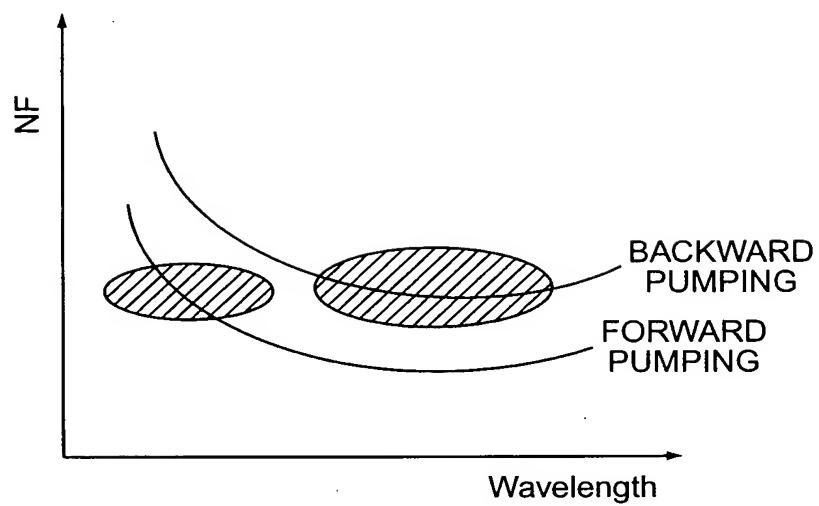


FIG. 6

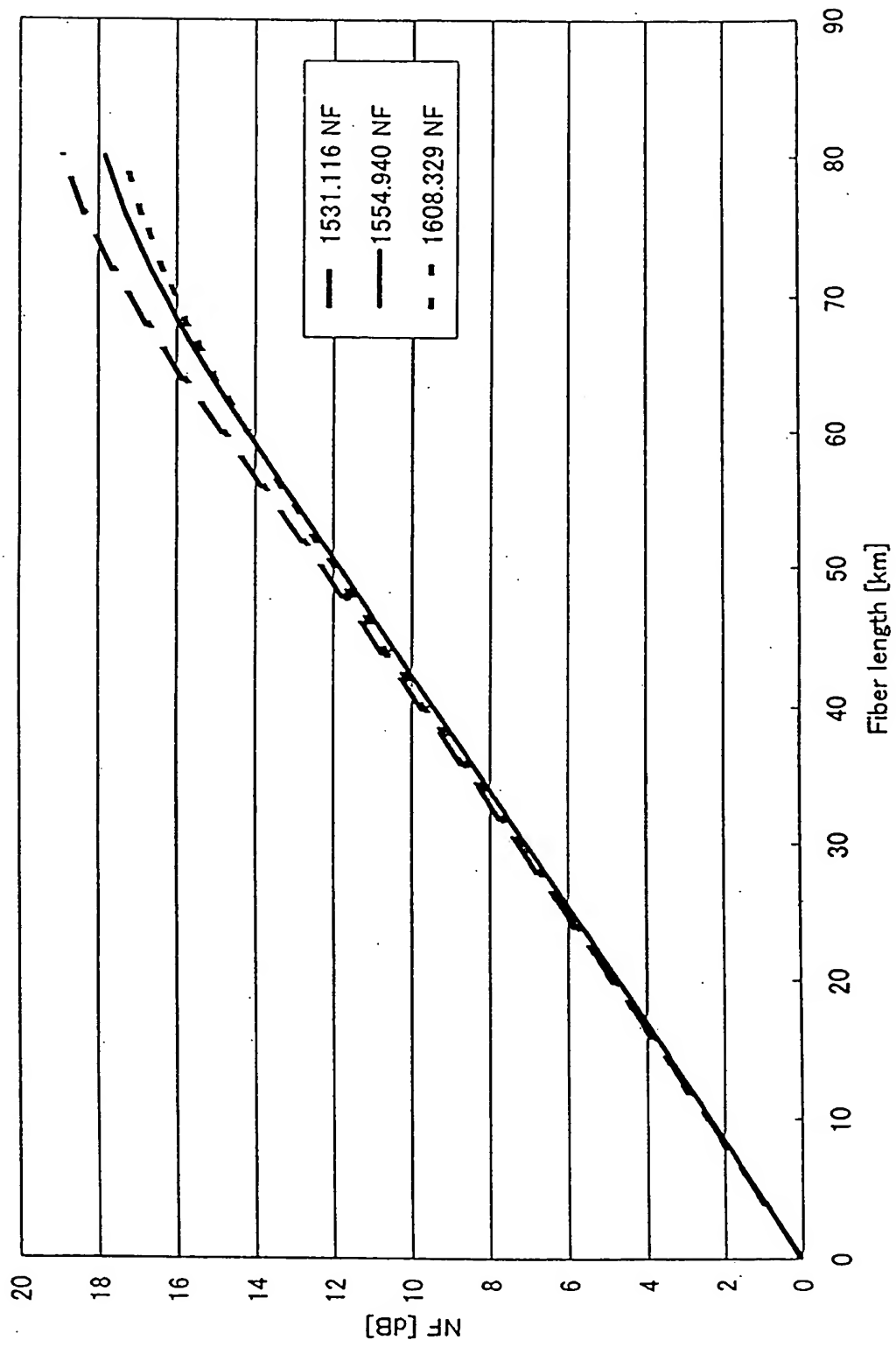


FIG. 7

STRUCTURAL DIAGRAM OF BACKWARD PUMPING

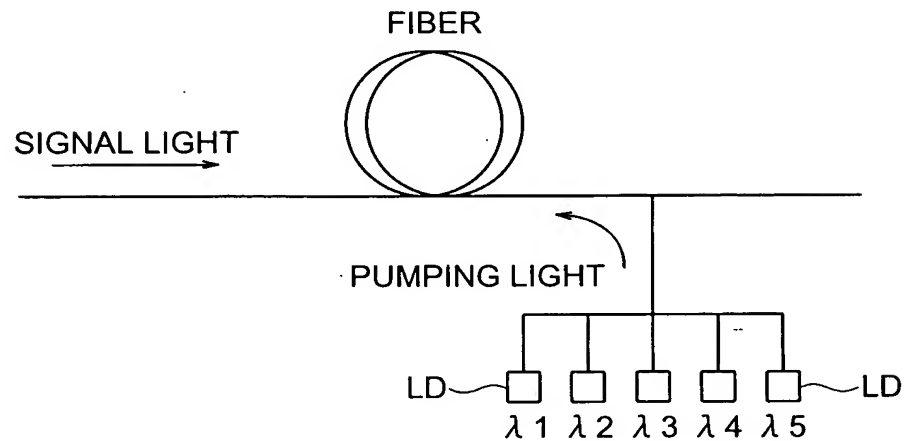


FIG. 8

STRUCTURAL DIAGRAM OF BIDIRECTIONAL PUMPING

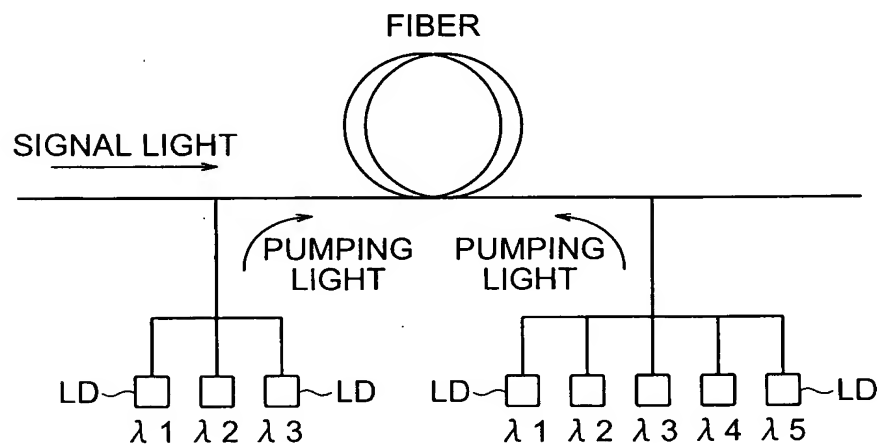


FIG. 9

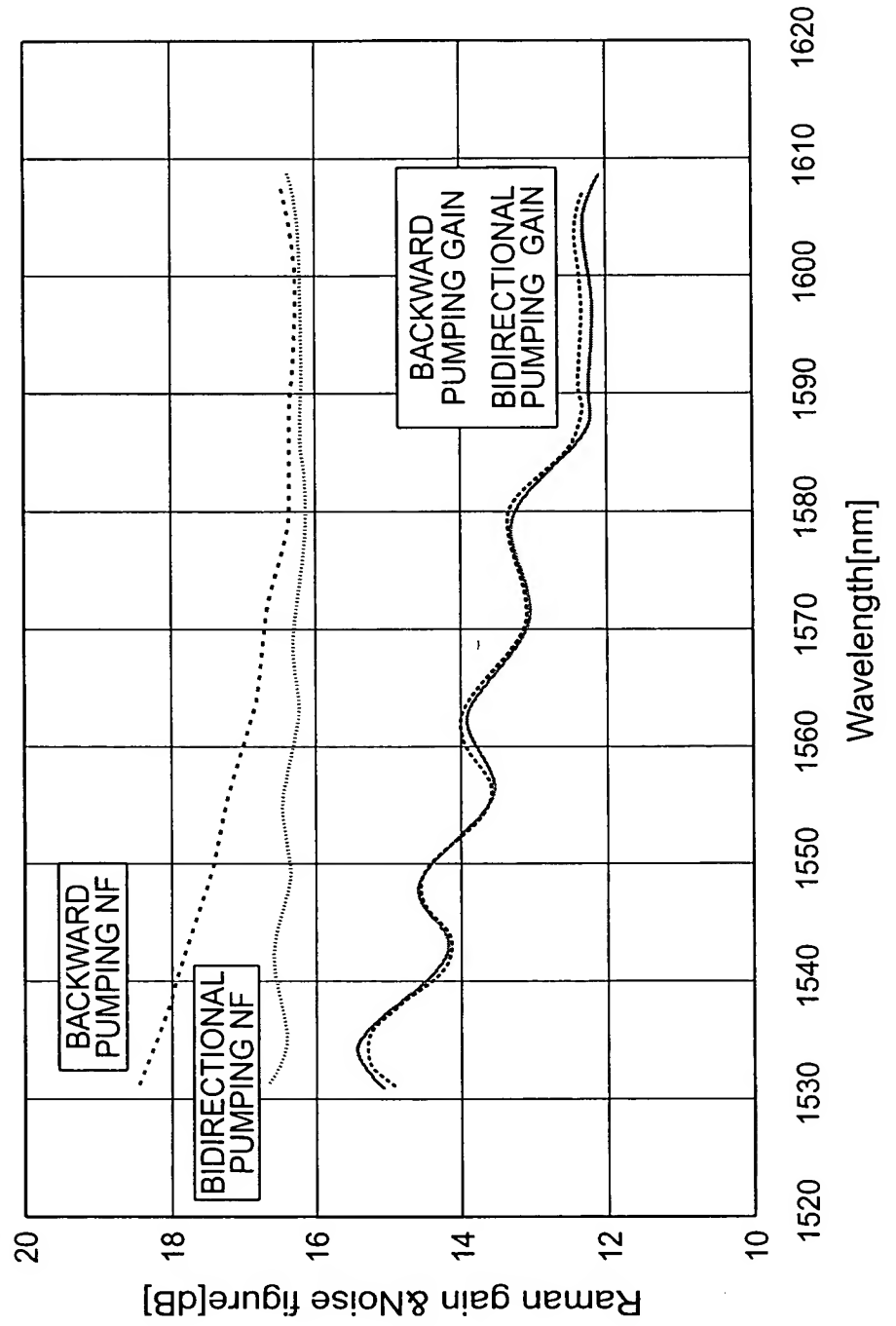




FIG. 10

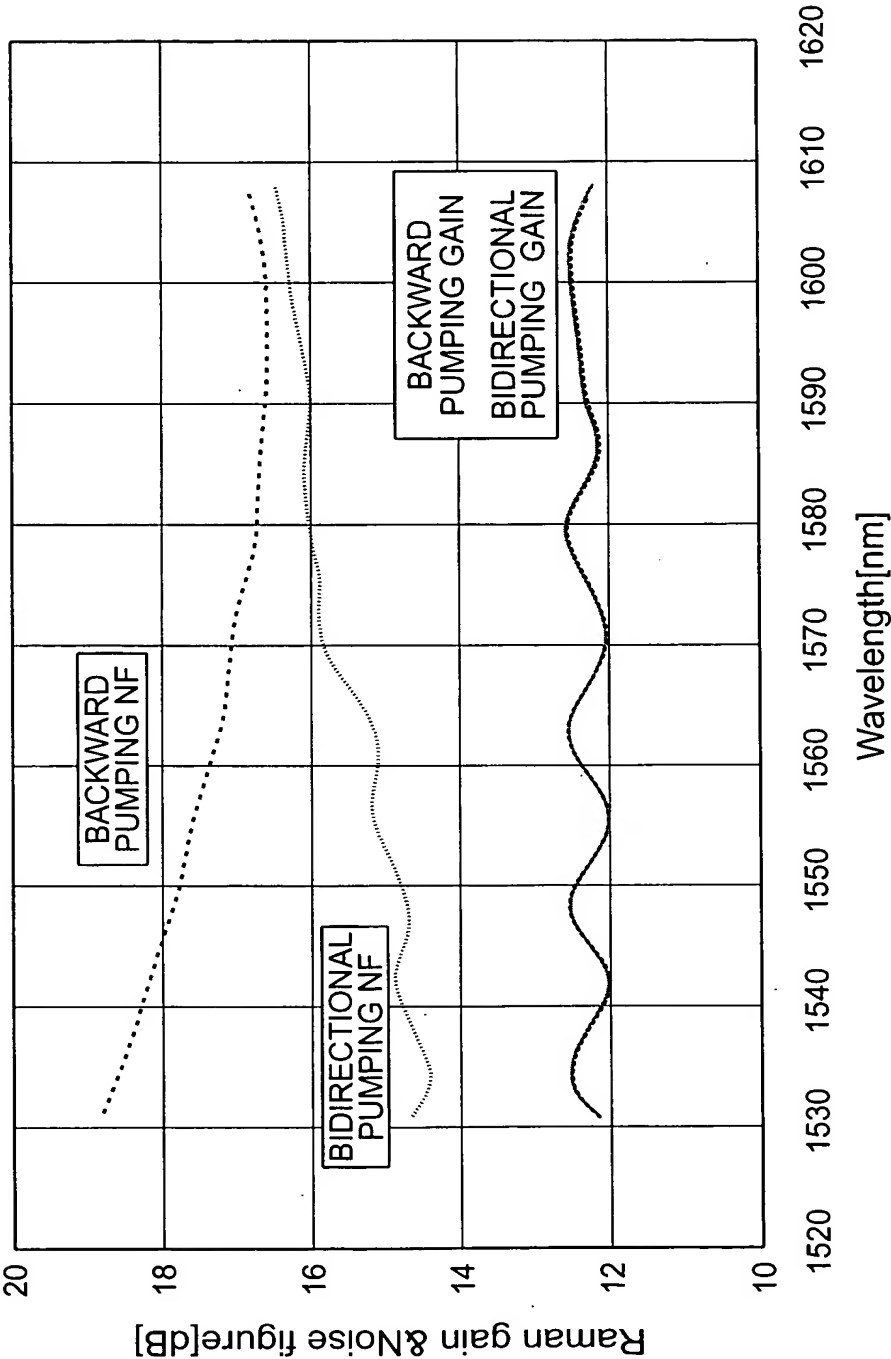


FIG.11

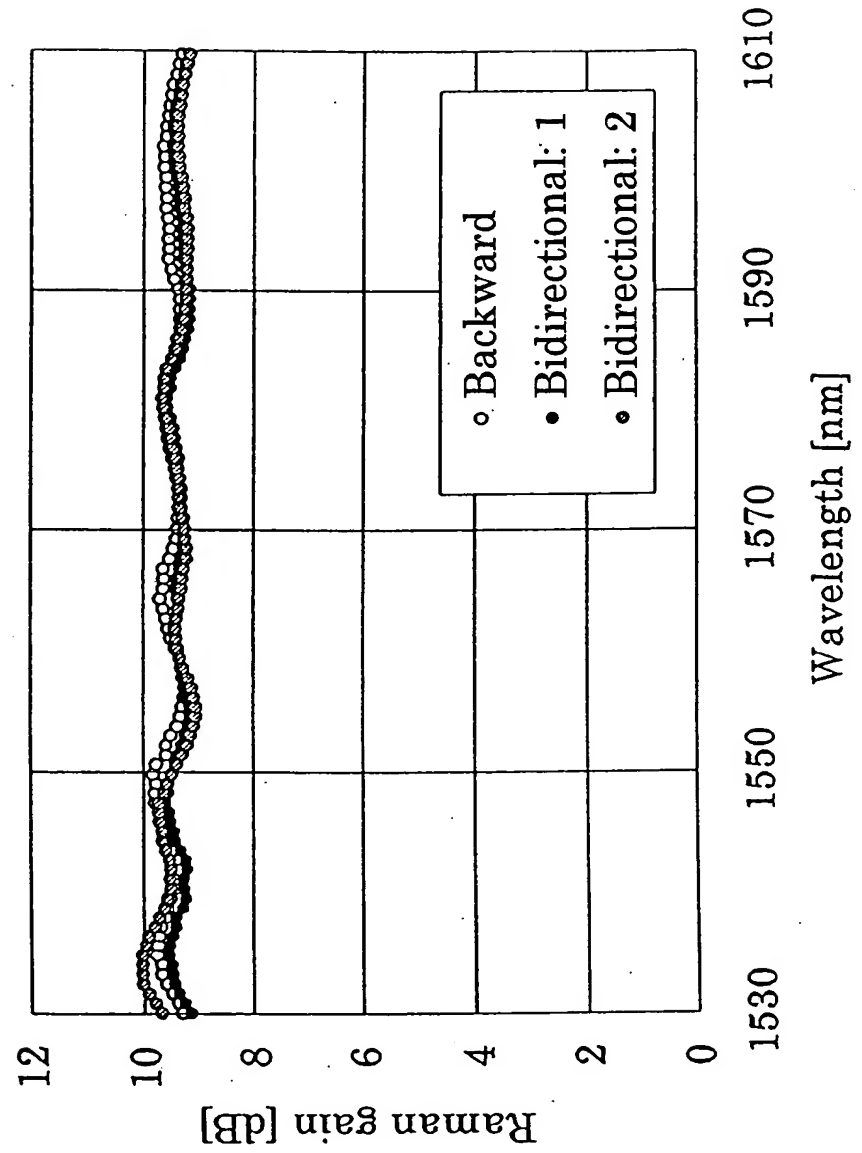


FIG.12

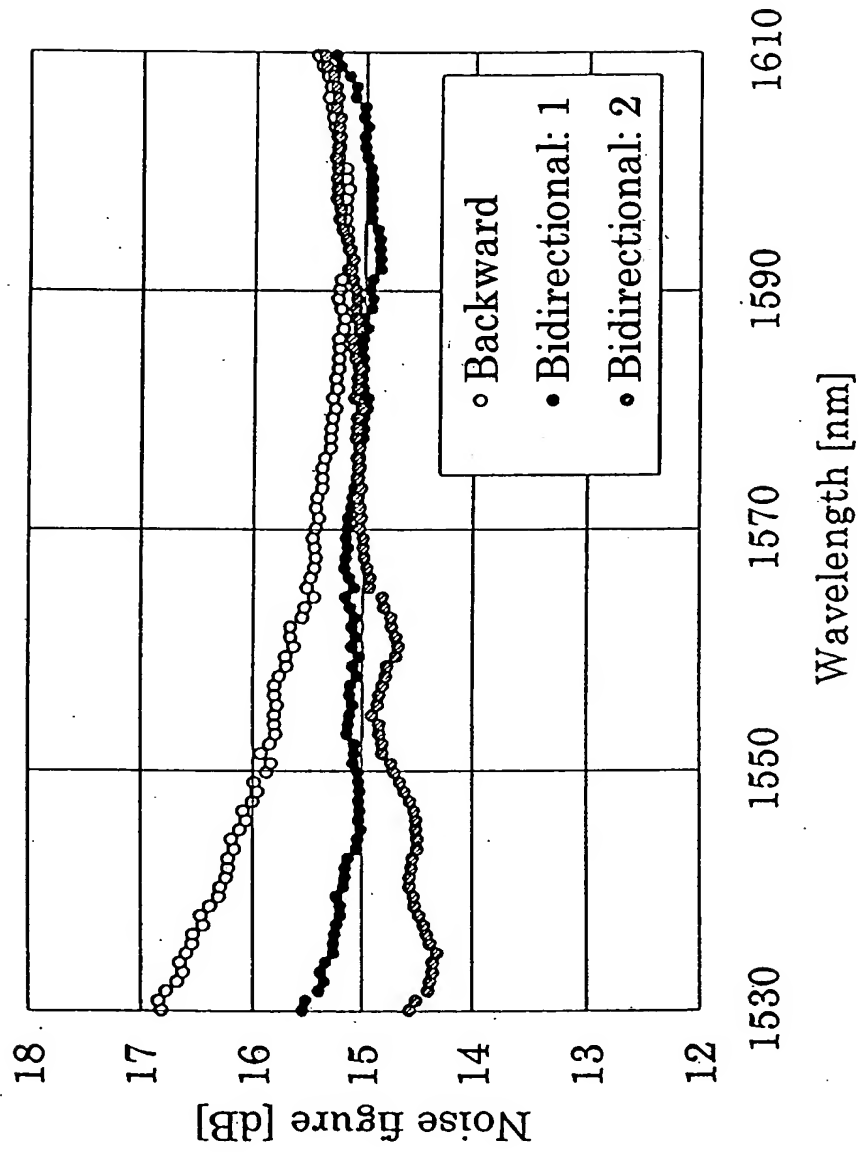


FIG. 13

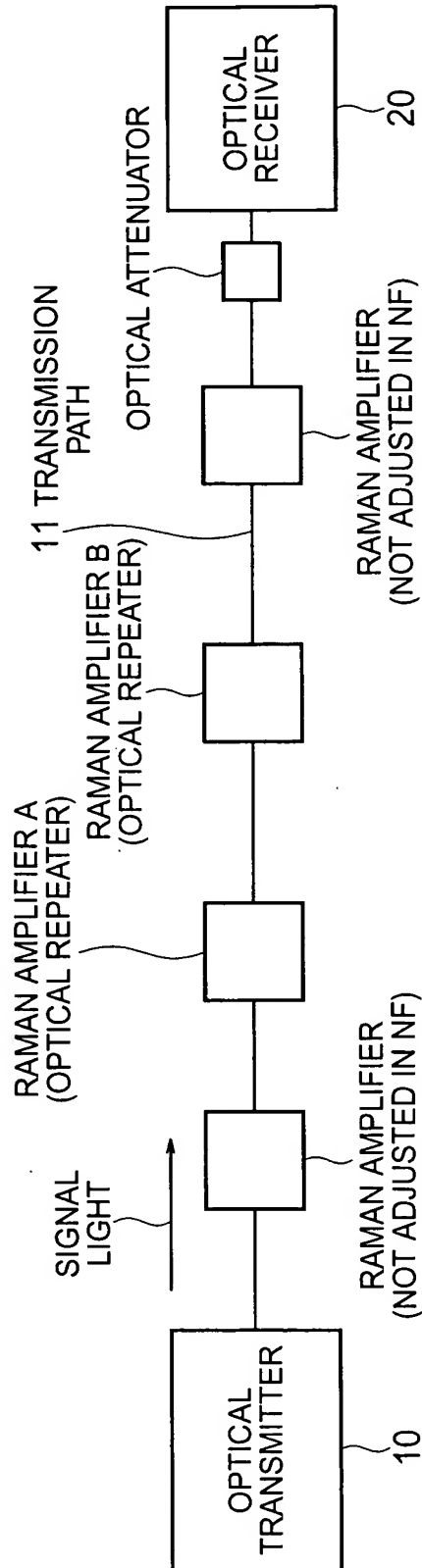
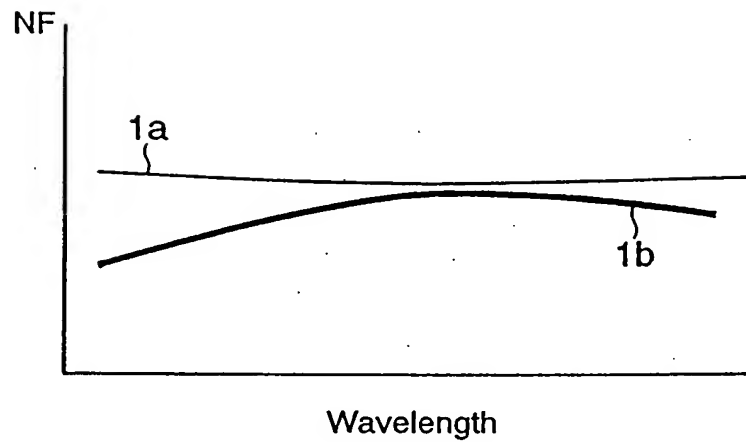
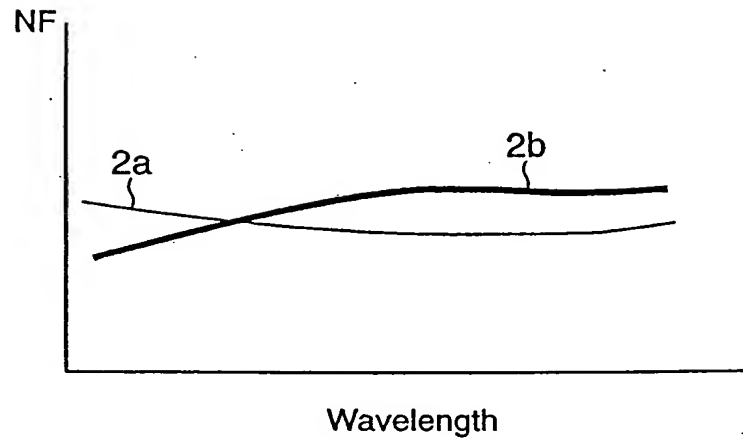


FIG. 14



NF IN RAMAN AMPLIFIER A

FIG. 15



NF IN RAMAN AMPLIFIER B

FIG. 16

